Energy storage policy valletta

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This table includes all existing state energy storage procurement mandates, targets, and goals. These terms describe various ways states may set an intention to attain a specified level of energy storage deployment by a specific date, and the role of regulated electric utilities in helping realize that intention.

Some of the abbreviations used in this table are: kW (kilowatts), MW (megawatts), GW (gigawatts), kWh (kilowatt hours), MWh (megawatt hours), GWh (gigawatt hours), BTM (behind-the-meter, which refers to customer-sited installations), LDES (long-duration energy storage), and IOU (investor-owned utility).

States define, count and report energy storage targets and procurement information differently. We have done our best to resolve these differences within this table, but some discrepancies are unavoidable. We encourage you to contact us with corrections.

The source of the installed capacity data represents front-of-the-meter (FTM) storage and may not fully include the installed capacity of behind-the-meter (BTM) storage. Some states do not require delineation or tracking between FTM and BTM storage, while others have specific carve-outs for BTM storage. Installed capacity data, taken from EIA"s Preliminary Monthly Electric Generator Inventory, are based on best estimates of current generating capacity, but are not meant to reflect capacity commitments by the associated facilities.

Final approvals were received in mid-August 2020 for the Vallecito Energy Storage Resilience (VESR) Project in Carpinteria, California - the first 40 MWh of front-of-meter (FOM) energy storage of the 280 MWh that Southern California Edison (SCE) proposed and the California Public Utilities Commission (CPUC) approved to come online in the area by the middle of 2021. The Commercial Operation Date (COD) for VESR is expected in December, just a few months after receiving final approvals, which were necessary for actual construction to begin.

VESR, one of the winners of SCE’s local capacity requirements RFP, was awarded a 20-year Energy Storage Resource Adequacy Agreement by SCE and is staged to provide significant additional grid services.

The Clean Coalition was instrumental in facilitating the project through community outreach and key approvals through Santa Barbara County. We helped build community support for VESR by aligning organizations including the Carpinteria Unified School District, Carpinteria Valley Association, Community Environmental Council, Sierra Club, IBEW 413, and many other important entities. In addition, we provided informative filings and commentary at Planning Commission and Board of Supervisor meetings.

VESR will serve as a model that supports Santa Barbara County’s emissions reduction goals, increases the County’s energy resilience, drives regional economic development, and optimizes the

performance and cost-effectiveness of the electricity grid.

VESR will provide foundational resilience to the portion of Santa Barbara County served by SCE - a highly transmission-vulnerable and disaster-prone area known as the Goleta Load Pocket (GLP). The GLP spans 70 miles of Southern California coastline, from Point Conception to Lake Casitas, encompassing the cities of Goleta, Santa Barbara (including Montecito), and Carpinteria.

The Clean Coalition has determined that to achieve indefinite renewables-driven backup power that provides 100% protection to the GLP against a complete transmission outage, 200 megawatts (MW) of solar and 400 megawatt-hours (MWh) of energy storage needs to be sited within the GLP. By itself, VESR represents a full 10% of the energy storage needed to achieve this goal. The Goleta Load Pocket Community Microgrid (GLPCM), which is being staged with this 100% resilience goal in mind, will bring the area unparalleled economic, environmental, and resilience benefits.

A Carpinteria Community Microgrid would include critical community facilities like the Carpinteria High School - an official Red Cross emergency sheltering site - the Fire District, and the Sheriff’s Department, as well as other nearby commercial-scale rooftops, parking lots, and parking structures. VESR stages solar-driven resilience with potential for more than 3 MW of solar siting at the Carpinteria High School, similar to the Solar Microgrids now being staged at schools throughout the Santa Barbara Unified School District.

With its approval by the Santa Barbara County Planning Commission in late February 2020, VESR has already helped to pave the way for quicker adoption of future projects. A subsequent Planning Commission meeting for another energy storage project, the Painter Battery Energy Storage System, required almost no discussion.

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